

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	150-5H8K-2	LASALLE	331	114
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

CODE NUMBER	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	45
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	35
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	235
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	187
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	168
81300520	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 8" X 6"	EACH	2
81603040	UNIT DUCT, 600V, 2-1/2" NO. 6, 1/2" NO. 8 GROUND, (XLP-TYPE USE), 1" DIA., POLYETHYLENE	FOOT	13285
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 8	FOOT	243
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 6	FOOT	486
81800200	AERIAL CABLE, 2-1/2" NO. 4, WITH MESSENGER WIRE	FOOT	4314
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	10791
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	34
82500520	LIGHTING CONTROLLER TYPE CB-RCS, 60 AMP-480 VOLT	EACH	1
83052200	LIGHT POLE, FIBERGLASS ANCHOR BASE, 45 FT. M.H., 12 FT MAST ARM	EACH	34
83057220	LIGHT POLE, WOOD, 40 FOOT, CLASS 4	EACH	7
83057350	LIGHT POLE, WOOD, 60 FOOT, CLASS 4	EACH	7
83600357	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 8"	EACH	34
83800650	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	120
84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	14
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	12
84200700	LIGHTING FOUNDATION REMOVAL	EACH	12
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
X8440102	RELOCATE EXISTING LUMINAIRE	EACH	7

GENERAL NOTES:

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS, THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.

ALL THREADS OF BOLTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SIEZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT:

180 & CH15 (MARSEILLES)

MARSEILLES TELEPHONE  
AMERENIP  
COMMONWEALTH EDISON  
ILLINOIS BELL

IDOT DISTRICT 3 LUMINAIRE PERFORMANCE TABLE		
Given Conditions		
PROPOSED RAMP		
Typical Section		
ROADWAY DATA:	Pavement Width	16 ft.
	Number of Lanes	1
	Roadway Classification	Freeway Class B
	I.E.S. Surface Classification	R3
	Q-Zero Value	0.07
LIGHT POLE DATA:	Mounting Height	45 ft.
	Mast Arm Length	12 ft.
	Pole Set-Back From Edge of Pavement	20 ft.
LUMINAIRE DATA:	Lamp Type	250W HPS
	Lamp Lumens	28000
	I.E.S. Vertical Distribution	Medium
	I.E.S. Control of Distribution	Full Cutoff
	I.E.S. Lateral Distribution	III
	Total Light Loss Factor	0.70
LAYOUT DATA:	Spacing	175 ft.
	Configuration	SINGLE SIDE
	Luminaire Overhang Over EOP	-8 ft.
NOTE: Variations from the above specified I.E.S. distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.		
Performance Requirements		
NOTE: These performance requirements shall be the minimum acceptable standards of the photometric performance for the luminaire, based on the given conditions listed above.		
ILLUMINATION:	Average Horizontal Illumination, E <sub>AVE</sub>	0.90 fc
	Uniformity Ratio, E <sub>AVE</sub> /E <sub>MIN</sub>	2.50:1
LUMINANCE:	Average Luminance, L <sub>AVE</sub>	0.60 cd/m <sup>2</sup>
	Uniformity Ratio, L <sub>AVE</sub> /L <sub>MIN</sub>	1.50:1
	Uniformity Ratio, L <sub>MAX</sub> /L <sub>MIN</sub>	2.50:1
	Max. Veiling Luminance Ratio, L <sub>v</sub> /L <sub>AVE</sub>	0.25:1

IDOT DISTRICT 3 LUMINAIRE PERFORMANCE TABLE		
Given Conditions		
PROPOSED MARSEILLES ROAD		
Typical Section		
ROADWAY DATA:	Pavement Width	42 ft.
	Number of Lanes	3
	Roadway Classification	Collector, Low pedestrian conflict
	I.E.S. Surface Classification	R3
	Q-Zero Value	0.07
LIGHT POLE DATA:	Mounting Height	45 ft.
	Mast Arm Length	12 ft.
	Pole Set-Back From Edge of Pavement	20 ft.
LUMINAIRE DATA:	Lamp Type	250W HPS
	Lamp Lumens	28000
	I.E.S. Vertical Distribution	Medium
	I.E.S. Control of Distribution	Full Cutoff
	I.E.S. Lateral Distribution	III
	Total Light Loss Factor	0.70
LAYOUT DATA:	Spacing	220 ft.
	Configuration	SINGLE SIDE
	Luminaire Overhang Over EOP	-8 ft.
NOTE: Variations from the above specified I.E.S. distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.		
Performance Requirements		
NOTE: These performance requirements shall be the minimum acceptable standards of the photometric performance for the luminaire, based on the given conditions listed above.		
ILLUMINATION:	Average Horizontal Illumination, E <sub>AVE</sub>	0.60 fc
	Uniformity Ratio, E <sub>AVE</sub> /E <sub>MIN</sub>	2.50:1
LUMINANCE:	Average Luminance, L <sub>AVE</sub>	0.40 cd/m <sup>2</sup>
	Uniformity Ratio, L <sub>AVE</sub> /L <sub>MIN</sub>	2.40:1
	Uniformity Ratio, L <sub>MAX</sub> /L <sub>MIN</sub>	6.00:1
	Max. Veiling Luminance Ratio, L <sub>v</sub> /L <sub>AVE</sub>	0.40:1

Singh & Associates (184-001139)



10-31-07  
exp. 11-30-07  
Sheets 114 thru 127

**SINGH** 300 N. ADAMS ST.  
CHICAGO, IL 60606  
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240  
CONSULTING ENGINEERS FAX: (312) 629-8449

**Baker**

Baker Engineering, Inc.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND SCHEDULE OF QUANTITIES

SCALE: NONE  
DATE 10/31/07

DRAWN BY VC  
CHECKED BY PV